HEMATITE FUEL FABRICATION FACILITY, ROD LOADING BUILDING
(Building No. 230)
3300 State Road P
Festus
Jefferson County
Missouri

HAER MO-113-E
MO-113-E

PHOTOGRAPHS

WRITTEN HISTORICAL AND DESCRIPTIVE DATA

HISTORIC AMERICAN ENGINEERING RECORD
National Park Service
U.S. Department of the Interior
1849 C Street NW
Washington, DC 20240-0001

HISTORIC AMERICAN ENGINEERING RECORD

HEMATITE FUEL FABRICATION FACILITY
BUILDING 230
(Rod Loading Building)

HAER NO. MO-113-E

Location: 3300 State Road P
Festus, Jefferson County, Missouri

Present Owner: Westinghouse Electric Company Limited Liability Corporation (LLC).

Present Use: Building 230 is currently being used as office space to house the decommissioning staff.

Significance: Building 230 is a non-contributing building to the overall historic integrity of the Facility because it was constructed after the period of significance for this Facility. Building 230 was constructed in 1992 in an effort to become more production efficient. Prior to the construction of Building 230 all of the pellets produced at the Facility were shipped to a sister plant in Windsor, Connecticut, to be loaded into rods and shipped to client. Building 230 was designed and built specifically to load rods and make the bundles on site and then to be shipped to the client.

PART I. HISTORICAL INFORMATION

A. Physical History

1. **Date of Construction:** 1992

2. **Architect:** The architect for this building is unknown.

3. **Owners, Occupants and Uses:** Owners include: Asa Brown Boveri (ABB), and Westinghouse Electric Company, LLC have been the only owners/occupants of Building 230. Building 230 housed rod loading and fuel assembly operations. There was also a warehouse, maintenance shop and offices.

4. **Builder-Contractor:** The builder is unknown.

5. **Original plans and construction:** The original plans for Building 230 are in the possession of Westinghouse Electric Company Limited Liability Corporation (LLC).

6. **Alterations and additions:** There have been no alterations or additions since the initial construction of Building 230.

B. Historical Context

Building 230 (Rod Loading Plant) was built in 1992. Prior to 1992 ABB Hematite shipped all pellets produced to a sister plant in Windsor, Connecticut, where the pellets were then inserted into the fuel rods. In an effort to be more efficient, ABB built Building 230 in order to receive finished pellets from Building 256-1 and load them into the rods, which were then inserted into the fuel assemblies and shipped directly to the customer.

PART II. ARCHITECTURAL INFORMATION

A. General Statement

1. **Architectural character:** Modern industrial

2. **Condition of fabric:** Building 230 is in excellent condition.

B. **Description of Exterior**

1. **Overall dimensions:** This building measures 188' x 198'-8" with an additional 22'-5"x 82'-8." The second floor Rod Loading area measures 42'-2" x 122'-3" and the second floor warehouse measures 80'-7" x 21'-5." Building 230 measures 43,883 total square feet.

2. **Foundation:** Poured concrete spread footings and concrete slab

3. **Walls:** Metal curtain walls with insulation

4. **Structural system, framing:** Steel framing

5. **Porches:** There are no porches.

6. **Chimneys:** There are no chimneys.

7. **Openings:**

   a. **Doorways and Doors:** There are two entrances on the north, one entrance and two bays on the east, and two entrances on the west side of the building.

   b. **Windows:** There are no windows.

8. **Roof:**

   a. **Shape, covering:** Flat, rigid insulating board over metal decking

   b. **Cornice, eaves:** There are no cornices or eaves.

   c. **Dormers, cupolas, towers:** There are no dormers, cupolas or towers.

C. **Description of Interior**

1. **Floor plans:** Open floor plan with a second story-mezzanine.

2. **Stairways:** Steel stairway to second floor

3. **Flooring:** The first and second floors are both reinforced concrete slab.

4. **Wall and ceiling finish:** Interior walls are drywall on metal studs and the ceiling is open leaving the prefabricated trusses on steel framing exposed.

5. **Openings:**

6. **Decorative features:** There are no decorative features.

7. **Hardware:** Modern

8. **Mechanical equipment:**

   a. **Heating, air conditioning, ventilation:** Modern heating and cooling system.

   b. **Lighting:** Fluorescent

   c. **Plumbing:** Modern

D. **Site**

1. **General setting and orientation:** Building 230 is located on the west side of the Facility. The front of the building faces east toward the main complex and Building 231 is connected to Building 230 on the south.

2. **Historic landscape design:** Vernacular landscape design.

PART III. SOURCES OF INFORMATION

A. **Architectural drawings:** The original plans are currently held by Westinghouse Electric Company Limited Liability Corporation (LLC).

B. Bibliography:

Malich, Phillip J. *034-JE-02 Proposed Hematite Former Fuel Processing Facility.* Missouri Department of Natural Resources, State Historic Preservation Office, Jefferson City, Missouri, 2002.

PART IV. PROJECT INFORMATION

This Historic American Engineering Record (HAER) documentation project was undertaken due to the owner's desire to decommission the Facility. The Facility will be disassembled (this is being done for safety purposes and the work is being done in accordance with federal law and regulations regarding hazardous waste clean-up and disposal). In 2003, Westinghouse Electric Company, LLC, hired SCI Engineering, Inc., of St. Charles, Missouri, to complete the HAER documentation of the Hematite Fuel Fabrication Facility. Dr. Steve Dasovich supervised the project and Historian Colleen Small-Vollman authored the HAER documentation report. The report was compiled by Susan Sheppard. Bruce Meyer and Todd Kapler completed the photographic documentation of the Facility, and Asa Westphal completed the floor plan drawings.